

PUBLICATIONS

1. Bottomley PA, Pope JM, Cornell BA. "A proton magnetic resonance study of the motion of cage water molecules in the clathrate hydrate of Xenon". *Mol Phys* 1976; 31: 1277-1281.
2. Holland GN, Bottomley PA. "A colour display technique for NMR imaging". *J Phys. E: Sci. Instrum.* 1977; 10: 714-716.
3. Andrew ER, Bottomley PA, Hinshaw WS, Holland GN, Moore WS, Simaraj C. "NMR images by the multiple sensitive point method: Application to larger biological systems". *Phys Med Biol* 1977; 22: 971-974.
4. Holland GN, Bottomley PA, Hinshaw WS. "¹⁹F magnetic resonance imaging". *J Magn Reson* 1977; 28: 133-136.
5. Hinshaw WS, Bottomley PA, Holland GN. "Radiographic thin section image of the human wrist by nuclear magnetic resonance". *Nature* 1977; 270: 722-723.
6. Bottomley PA, Hinshaw WS, Holland GN. "A computer driven photoscanner for medical imaging". *Phys. Med. Biol.* 1978; 23: 309-317.
7. Hinshaw WS, Andrew ER, Bottomley PA, Holland GN, Moore WS, Worthington BS. "Display of cross-sectional anatomy by nuclear magnetic resonance imaging". *Brit J Radiol* 1978; 51: 273-280.
8. Bottomley PA. "A technique for the measurement of tissue impedance from 1 to 100 MHz using a vector impedance meter". *J Phys E: Sci Instrum* 1978; 11: 413-414.
9. Bottomley PA, Andrew ER. "RF magnetic field penetration, phase-shift and power dissipation in biological tissue: Implications for NMR imaging". *Phys Med Biol* 1978; 23: 630-643.
10. Hinshaw WS, Andrew ER, Bottomley PA, Holland GN, Moore WS, Worthington BS. "Internal structural mapping by NMR Imaging". *Neuroradiol* 1978; 16: 607-609.
11. Andrew ER, Bottomley PA, Hinshaw WS, Holland GN, Moore WS, Simaraj C, Worthington BS. "NMR imaging in medicine and biology". *Proc XXth Congress Ampere (Tallinn, USSR)*, 1978; 53-56.
12. Bottomley PA. "Nuclear magnetic resonance techniques in medicine". *Cancer Topics* 1978; 2 (2): 4-5.
13. Hinshaw WS, Andrew ER, Bottomley PA, Holland GN, Moore WS, Worthington BS. "An in-vivo study of the fore-arm and hand by thin section NMR imaging". *Brit J Radiol* 1979; 52: 36-43.
14. Bottomley PA. "In-vivo tumour discrimination in a rat by proton NMR imaging". *Cancer Research* 1979; 39: 468-470.
15. Hinshaw WS, Bottomley PA, Holland GN. "A demonstration of the resolution of NMR imaging in

biological systems". *Experientia* 1979; 35: 1268-1269.

16. Bottomley PA. "A comparative evaluation of proton NMR imaging results". *J. Magn. Reson.* 1979; 36: 121-127.
 17. Bottomley PA. "A versatile magnetic field gradient control system for NMR imaging". *J Phys E: Sci Instrum* 1981; 14: 1081-1087.
 18. Bottomley PA. "In-vivo soft tissue NMR imaging of the rat thorax and abdomen". *Experientia* 1981; 37: 768-770.
 19. Nunnally RL, Bottomley PA. "Assessment of pharmacological treatment of myocardial infarction by phosphorous-31 NMR with surface coils". *Science* 1981; 211: 177-180.
 20. Bottomley PA. "Digital gradient magnetic field reorientation in three-dimensional NMR zeugmatography". *J Phys E: Sci Instrum* 1981; 14: 1052-1053.
 21. Bottomley PA. "Localized NMR spectroscopy by the sensitive point method". *J Magn Reson* 1982; 50: 335-338.
 22. Bottomley PA, Kogure K, Namon R, Alfonso OF. "A in-vivo study of cerebral energy metabolism in rats by phosphorous nuclear magnetic resonance using surface coils". *Magn Reson Imag* 1982; 1: 81-85.
 23. Bottomley PA, Edelstein WA. "Power deposition in whole body NMR imaging". *Med. Phys* 1981; 8: 510-512.
 24. Bottomley PA. "NMR imaging techniques and applications: A review". *Rev Sci Instrum* 1982; 53: 1319-1337.
- Duplicate publication: General Electric Company Technical Information Series, Report No.81CRD195 (General Electric Corporate Research and Development, Schenectady NY)1981, p. 1-23.
25. Bottomley PA. "Instrumentation for whole body NMR imaging" In: Witcofski, RL, Karstaedt N, Partain CL, eds. *NMR Imaging: Proceedings of an International Symposium on NMR Imaging*. Winston-Salem NC: Bowman Gray School of Medicine, Wake Forest University 1982, pp 25-31.
- Duplicate publication: General Electric Company Technical Information Series, Report No.82CRD203 (General Electric Corporate Research and Development, Schenectady NY) 1982, p. 1-6.
26. Edelstein WA, Bottomley PA, Hart HR, Leue WM, Schenck JF, Redington RW. "NMR imaging at 5.1 MHz: work in progress". In: Witcofski, RL, Karstaedt N, Partain CL, eds. *NMR Imaging: Proceedings of an International Symposium on NMR Imaging*. Winston-Salem NC: Bowman Gray School of Medicine, Wake Forest University 1982, pp 139-145.
- Duplicate publication: General Electric Company Technical Information Series, Report No.82CRD204 (General Electric Corporate Research and Development, Schenectady NY) 1982, p. 1-7.
27. Bottomley PA, Edelstein WA. "NMR imaging applications in medicine and biology". *Current Problems in Cancer* 1982; 1: 20-31.

28. Hart HR, Bottomley PA, Edelstein WA, Leue WM, Schenck JF, Redington RW. "Imaging with nuclear magnetic resonance in a 0.12 T resistive magnet". Proc SPIE 1982; 347: 365-371.
29. Axel L, Herman GT, Udupa JK, Bottomley PA, Edelstein WA. "Three dimensional displays of nuclear magnetic resonance (NMR) cardiovascular images". J Comp Assist Tomogr 1983; 7: 172-174.
30. Bottomley PA, Edelstein WA, Leue WM, Hart HR, Schenck JF, Redington RW. "Head and body imaging by hydrogen nuclear magnetic resonance". Magn Reson Imag 1982; 1: 69-74.
31. Edelstein WA, Bottomley PA, Hart HR, Smith LS. "Signal, noise and contrast in NMR imaging". J Comp Assist Tomogr 1983; 7: 391-401.
32. Bottomley PA. "Nuclear magnetic resonance: beyond physical imaging". IEEE Spectrum 1983; 20: 32-38. Duplicate publication (in Italian): "La risonanza magnetica nucleare: al di la dell' immagine fisica" Electrotechnica 1984; 70(11): 1013-20 (1984).
33. Hart HR, Bottomley PA, Edelstein WA, Karr SG, Leue WM, Mueller O, Redington RW, Schenck JF, Smith LS, Vatis D. "Technical alternatives in nuclear magnetic resonance (NMR) imaging". Proc. SPIE 1983; 419: 228-234.
34. Bottomley PA, Hart HR, Edelstein, Schenck JF, Smith LS, Leue WM, Mueller OM, Redington RW. "NMR imaging/spectroscopy system to study both anatomy and metabolism". The Lancet 1983; ii, 273-274.
35. Kressel HY, Axel L, Thickman D, Alavi A, Pollack H, Arger P, Edelstein WA, Bottomley PA, Redington RW, Baum S. "NMR imaging of the chest at .12 T: initial clinical experience with a resistive magnet". Am J Roentgen 1983;141: 1157-1162.
36. Kressel HY, Axel L, Thickman D., Alavi A, Pollack H, Arger P, Edelstein WA, Bottomley PA, Redington RW, Baum S. "NMR imaging of the abdomen at 0.12 T: early clinical experience." Am J Roentgen 1983; 141: 1179-1186.
37. Bottomley PA. "NMR in medicine". Comput. Radiol 1984; 8: 57-77.
38. Edelstein WA, Bottomley PA, Pfeifer PM. "A signal-to-noise calibration procedure for NMR imaging systems". Med Phys 1983; 11: 180-185.
39. Bottomley PA, Hart HR, Edelstein WA, Schenck JF, Smith LS, Leue WM, Mueller OM, Redington RW. "Anatomy and metabolism of the normal human brain studied by magnetic resonance at 1.5 Tesla". Radiol 1984; 150, 441-446.
40. Bottomley PA. "The basis of imaging and chemical analysis by NMR". In: Nuclear magnetic resonance and correlative imaging modalities. New York: Soc Nucl Med 1984, pp 37-42.
41. Zimmerman RA, Bilaniuk LT, Goldberg HI, Grossman RI, Levine RS, Lynch R, Edelstein WA,

Bottomley PA, Redington RW. "Cerebral NMR imaging: early results with .12 T resistive systems". Am J Roentgen 1983; 141: 1187-1193.

42. Hart HR, Bottomley PA, Edelstein WA, Karr SG, Leue WM, Mueller O, Redington RW, Schenck JF, Smith LS, Vatis D. "Nuclear magnetic resonance imaging: contrast-to-noise ratio as a function of strength of magnetic field". Am J Roentgen 1983; 141: 1195-1201.
43. Bottomley PA. "Future advances in NMR imaging/spectroscopy techniques". In: National Conference on Biological. Imaging II. Clinical Aspect. Washington DC: National Academy Press 1984, pp 77-83.
44. Bottomley PA, Edelstein WA, Hart HR, Schenck JF, Smith LS. "Spatial localization in ^{31}P and ^{13}C NMR spectroscopy using surface coils". Magn Reson Med 1984; 1: 410-413.
45. Zimmerman PA, Bottomley PA, Edelstein WA, Hart HR, Redington RW, Bilaniuk LT, Grossman RI, Goldberg HI, Bruno L, Kressel H. "Proton imaging and phosphorus spectroscopy in a malignant glioma". Am J Neuroradiol 1985; 6: 109-110.
46. Schenck JF, Bottomley PA, "Eddy currents in human tissues and whole body nuclear magnetic resonance imaging". In: 1983 Annual Report Conference on Electrical Insulation and Dielectric Phenomena. Piscatway, NJ: IEEE 1983, pp 366-377.
47. Bottomley PA, Foster TH, Argersinger RE, Pfeifer LM. "A review of normal tissue hydrogen NMR relaxation times and relaxation mechanisms: dependence on tissue type, NMR frequency, temperature, species, excision, and age." Med Phys 1984; 11: 425-448. (See also front cover).
Duplicate publication: General Electric Company Technical Information Series, Report No.84CRD072 (General Electric Corporate Research and Development, Schenectady NY) 1984, p. 1-34.
48. Bottomley PA, Foster TH, Darrow RD. "Depth resolved surface coil spectroscopy (DRESS) for *in vivo* ^1H , ^{31}P , and ^{13}C , NMR". J Magn Reson 1984; 59: 338-342.
49. Bottomley PA, TH Foster, WM Leue. "Chemical imaging of the brain by NMR". Lancet 1984; i: 1120.
50. Bottomley PA, Foster TH, Leue WM. "In vivo nuclear magnetic resonance (NMR) chemical shift imaging by selective irradiation". Proc Natl Acad Sci 1984; 81: 6856-6860.
51. Edelstein WA, Schenck JF, Hart HR, Hardy CJ, Foster TH, Bottomley PA. "Surface coil magnetic resonance imaging". JAMA (J Am Med Assoc) 1985; 253: 828.
52. Schenck JF, Hart HR, Foster TH, Edelstein WA, Bottomley PA, Redington RW, Hardy CJ, Zimmerman RA, Bilaniuk LT. "Improved MR imaging of the orbit at 1.5T with surface coils". Am. J. of Neuroradiol 1985; 6:193-196.
Duplicate publication: Am J Roentgen 1985; 144: 1033-1036.
53. Bottomley PA. "NMR: A new perspective on medicine". NY State J Med 1984; 84: 438-440 (1984).
54. Schenck JF, Foster TH, Henkes JL, Adams WJ, Hayes C, Hart HR, Edelstein WA, Bottomley PA, Wehrli

- FW. "High field surface coil MR imaging of localized anatomy." *Am J Neuroradiol* 1985; 6: 181-186.
55. Bilaniuk LT, Zimmerman RA, Wehrli FW, Snyder PJ, Goldberg HI, Grossman RI, Bottomley PA, Edelstein WA, Glover GH, MacFall JR, Redington RW. "Magnetic Resonance Imaging of Pituitary Lesions Using 1.0 to 1.5 T Field Strength". *Radiology* 1984; 153: 415-418.
 56. Bilaniuk LT, Zimmerman RA, Wehrli FW, Goldberg HI, Grossman RI, Bottomley PA, Edelstein WA, Glover GH, MacFall JR, Redington RW, Kressel HY. "Cerebral NMR: Comparison of Low and High Field Strength Imaging. *Radiology* 1984; 153, 409-414.
 57. Bottomley PA, Edelstein WA, Foster TH, Adams WA. "In vivo solvent suppressed localized hydrogen nuclear magnetic resonance spectroscopy: a window to metabolism?" *Proc Natl Acad Sci USA* 1985; 82: 2148-2152.
 58. Bottomley PA, Redington RW, Edelstein WA, Schenck JF. "Estimating RF power deposition in body NMR imaging". *Magn Reson Med* 1985; 2: 336-349.
 59. Zimmerman RA, Bilaniuk LT, Grossman RI, Levine RS, Lynch R, Goldberg HI, Edelstein WA, Bottomley PA, Redington RW. "Resistive NMR of intracranial hematomas." *Neuroradiol* 1985; 27, 16-20.
 60. Zimmerman RA, Bilaniuk LT, Grossman RI, Goldberg HI, Edelstein W, Bottomley P, Redington RW. "Cerebral NMR: diagnostic evaluation of brain tumors by partial saturation technique with resistive NMR". *Neuroradiol* 1985; 27, 9-15.
 61. Bottomley PA. "Non-invasive study of high-energy phosphate metabolism in the human heart by depth resolved ^{31}P NMR spectroscopy". *Science* 1985; 229: 769-772.
 62. Bottomley PA, Smith LS, Leue WM, Charles HC. "Slice interleaved depth resolved surface coil spectroscopy (SLIT DRESS) for rapid ^{31}P NMR *in vivo*". *J Magn Reson* 1985; 64: 347-351.
 63. Bottomley PA, Rogers HH, Foster TH. "Nuclear magnetic resonance imaging shows water distribution and transport in plant root systems *in situ*". *Proc Natl Acad Sci USA* 1986; 83: 87-89.
 64. H. H. Rogers, P. A. Bottomley, T. H. Foster "Application of nuclear magnetic resonance imaging to plant root studies". In: *Proceedings of the International Conference on Soil Dynamics*, Auburn, Alabama, June 17-19, 1985. Vol 5. Auburn AL: Auburn University 1985: 1152-1157.
 65. Bottomley PA, Herfkens RJ, Smith LS, Brazzamano S, Blinder R, Hedlund LW, Swain JL, Redington RW. "Noninvasive detection and monitoring of regional myocardial ischemia *in situ* using depth resolved ^{31}P NMR spectroscopy". *Proc Natl Acad Sci USA* 1985; 82: 8747-8751.
 66. Zimmerman RA, Bilaniuk LT, Yanoff M, Schenck JF, Hart HR, Foster TH, Edelstein WA, Bottomley PA, Redington RW, Hardy CJ. "Orbital magnetic resonance imaging". *Am J Ophthalmology* 1985; 100: 312-317.
 67. Bottomley PA, Drayer BP, Smith LS. "Chronic adult cerebral infarction studied by phosphorus NMR

spectroscopy". Radiol 1986; 160: 763-766.

68. Bottomley PA, Hardy CJ, Argersinger RE, Allen-Moore G. "A review of ^1H NMR relaxation in pathology: are T_1 and T_2 diagnostic?". Med Phys 1987; 14: 1-37.
Duplicate publication: General Electric Company Technical Information Series, Report No.86CRD199 (General Electric Corporate Research and Development, Schenectady NY) 1986, p. 1-49.
69. Bottomley PA. "Spatial localization in NMR spectroscopy *in vivo*". Annal NY Acad Sci 1987; 508: 333-348.
70. Bottomley PA, Smith LS, Brazzamani S, Hedlund LW, Redington RW, Herfkens RJ. "The fate of inorganic phosphate and pH in regional myocardial ischemia and infarction: a noninvasive ^{31}P NMR study". Magn Reson Med 1987; 5: 129-142.
71. Bottomley PA, Herfkens RJ, Smith LS, Bashore TM. "Altered phosphate metabolism in myocardial infarction detected by P-31 MR spectroscopy". Radiol 1987; 165: 703-707.
72. Rogers HH, Bottomley PA. "In situ NMR imaging of roots: influence of soil type, ferromagnetic particle content and soil moisture." Agronomy Journal 1987;79: 957-965.
73. Mueller O, Vatis D, Edelstein W, Bottomley P. *RF-technology for NMR imaging/spectroscopy*. In: Proceedings of RF Technology Expo '86, Anaheim, CA, Jan. 30-Feb. 1, 1986, RF Design Magazine. Englewood CO: Cardiff 1986, p. 419-432.
74. Bottomley PA, Hardy CJ. *Two-dimensional spatially-selective spin inversion and spin echo refocussing with a single Nuclear Magnetic Resonance pulse*. J Appl Phys 1987; 62: 4284-4290.
75. Bottomley PA, Hardy CJ. *PROGRESS in efficient three-dimensional spatially localized in vivo ^{31}P NMR spectroscopy using multi-dimensional spatially-selective (ρ) pulses*. J Magn Reson 1987; 74: 550-556.
76. Hardy CJ, Bottomley PA, O'Donnell M, Roemer P. *Optimization of two-dimensional spatially selective NMR pulses by simulated annealing*. J Magn Reson 1988;77: 233-250.
77. Hardy CJ, Bottomley PA, Roemer PB. *Off-axis spatial localization with frequency modulated nuclear magnetic resonance rotating (ρ) pulses*. J Appl Phys 1988; 63: 4741-4743.
78. Bottomley PA, Charles HC, Roemer PB, Flamig D, Engeseth H, Edelstein WA, Mueller OM. *Human in vivo phosphate metabolite imaging with ^{31}P NMR*. Magn Reson Med 1988; 7: 319-336.
79. Hardy CJ, Bottomley PA, Roemer PB, Redington RW. *Rapid ^{31}P spectroscopy on a 4 Tesla whole-body system*. Magn Reson Med 1988; 8: 104-109.
80. Bottomley PA. *State of the art. Human in vivo NMR spectroscopy in diagnostic medicine: clinical tool or research probe?* Radiology 1989; 170: 1-15.
81. Bottomley PA, Hardy CJ. *Rapid, reliable in vivo assays of phosphate metabolites by Nuclear Magnetic*

Resonance. Clin Chem 1989; 35: 392-395.

82. Bottomley PA, Hardy CJ, Roemer PB, Mueller OM. *Proton decoupled, Overhauser enhanced, spatially localized carbon-13 spectroscopy in humans*. Magn Reson Med 1989; 12: 348-363.
83. Bottomley PA, Hardy CJ, Roemer PB, Weiss RG. "Problems and expedencies in human ^{31}P spectroscopy. The definition of localized volumes, dealing with saturation and the technique-dependence of quantification." NMR in Biomedicine 1989; 2: 284-289.
84. Weiss RG, Bottomley PA, Hardy CJ, Gerstenblith G. *Regional myocardial metabolism of high-energy phosphates during isometric exercise in patients with coronary artery disease*. N Engl J Med 1990; 323: 1593-1600.
85. Bottomley PA, Hardy CJ, Roemer, PB. *Phosphate metabolite imaging and concentration measurements in human heart by nuclear magnetic resonance*. Magn Res Med 1990; 14: 425-434.
86. Bottomley PA, Hardy CJ, Cousins JP, Armstrong M, Wagle WA. "AIDS dementia complex: brain high-energy phosphate metabolite deficits". Radiol. 1990; 176: 407-411.
87. Hardy CJ, Cline HE, Bottomley PA. "Correcting for nonuniform k-space sampling in two-dimensional NMR selective excitation". J Magn Reson 1990; 87: 639-645.
88. Bottomley PA, Hardy CJ. "Strategies and protocols for clinical ^{31}P research in the heart and brain". Phil Trans Roy Soc Lond A 1990; 333: 531-544.
89. Bottomley PA, Hardy CJ, Smith LS, Drayer BP, Cousins JP. "Brain high-energy phosphate metabolism in dementias" Bull Clinical Neurosciences 1990 (published 1992); 55: 29-35.
90. Hardy CJ, Bottomley PA. " ^{31}P spectroscopic localization using pinwheel NMR excitation pulses." Magn Reson Med 1991; 17: 315-327.
91. Bottomley PA, Weiss RG, Hardy CJ, Baumgartner WA. "Myocardial high-energy phosphate metabolism and allograft rejection in patients with heart transplants". Radiol 1991; 181: 67-75.
92. Hardy CJ, Weiss RG, Bottomley PA, Gerstenblith G. "Altered myocardial high-energy phosphate metabolites in patients with dilated cardiomyopathy." Am Heart J 1991; 122: 795-801.
93. Bottomley PA, Hardy CJ, Weiss RG. "Correcting human ^{31}P heart spectra for partial saturation: Evidence that saturation factors for PCr/ATP are homogeneous in normal and disease states". J Magn Reson 1991; 95: 341-355.
94. Bottomley PA, Weiss RG, Gerstenblith G, Hardy CJ. Regional myocardial metabolism of high-energy phosphates in patients with coronary artery disease (letter). N Engl J Med 1991; 324: 1219.
95. Bottomley PA, Roemer RB. Homogeneous tissue model estimates of RF power deposition in human NMR studies. Local elevations predicted in surface coil decoupling. Annal NY Acad Sci 1992; 649: 144-159.

96. Hardy CJ, Bottomley PA, Rohling KW, Roemer PB. *An NMR phased array for human cardiac ^{31}P spectroscopy.* Magn Reson Med 1992; 28: 54-64.
97. Bottomley PA, Cousins JP, Pendrey DL, Wagle WA, Hardy CJ, Eames FA, McCaffrey RJ, Thompson DA. *Alzheimer's dementia: quantification of energy metabolism and mobile phosphoesters with P-31 NMR spectroscopy.* Radiology 1992; 183: 695-699.
98. Bottomley PA, Hardy CJ. *Proton Overhauser enhancements in human cardiac phosphorus NMR spectroscopy at 1.5-T.* Magn Reson Med 1992; 24: 384-390.
99. Murphy DGM, Bottomley PA, Salerno J, DeCarli C, Mentis M, Grady CL, Giacometti K, Hardy CJ, Schapiro MB, Rapoport SI, Alger J, Horwitz B. *An in vivo study of glucose and phosphorus metabolism in Alzheimer's disease using magnetic resonance spectroscopy and positron emission tomography.* Archives of General Psychiatry 1993; 50: 341-349.
100. Bottomley PA, Hardy CJ. *Mapping creatine kinase reaction rates in human brain and heart with 4 Tesla saturation transfer ^{31}P NMR.* J Magn Reson 1992; 99: 443-448.
101. Bottomley, PA. *Brain energy and Alzheimer's disease.* General Electric Corporate Research and Development Center Technical Newsletter 1992 (2Q); p1-4.
102. Bottomley, PA, Rogers HH, Prior SA. *NMR imaging of root water - distribution in intact Vicia faba L. plants in elevated atmospheric CO_2 .* Plant Cell and Environment 1993; 16: 335-338.
103. Bottomley, PA. *The true T_1 values of myocardial high-energy phosphates?* Magn Reson Med 1993; 29: 145-146.
104. Bottomley PA, Ouwerkerk R. *BIRP: an improved implementation of low-angle adiabatic (BIR-4) excitation pulses.* J Magn Reson Ser A 1993; 103: 242-244.
105. Bottomley PA, Ouwerkerk R. *The dual-angle method for fast sensitive T_1 measurement in vivo with low angle adiabatic pulses.* J Magn Reson Ser B 1994; 104:159-167.
106. Bottomley PA. *NMR spectroscopy of the human heart: the status and the challenges.* Radiology 1994; 191: 593-612.
107. Bottomley PA, Ouwerkerk R. *Optimum flip-angles for exciting NMR with uncertain T_1 values.* Magn Reson Med 1994; 32: 137-141.
108. Bottomley PA. *Whither human cardiac spectroscopy?* MAGMA 1994; 2: 169-176.
109. Bottomley PA, Atalar E, Weiss RG. *Human cardiac high-energy phosphate metabolite concentrations by 1D-resolved NMR spectroscopy.* Magn Reson Med 1996; 35: 664-670.

110. Atalar E, Bottomley PA, Ocali O, Correia LCL, Kelemen MD, Lima JAC, Zerhouni EA. *High resolution intravascular MRI and MRS using a catheter receiver coil*. Magn Reson Med 1996; 36: 596-605.
111. Bottomley PA, Lugo-Olivieri CH, Giaquinto R. *What is the optimum phased-array coil design for cardiac magnetic resonance?* Magn Reson Med 1997; 37: 591-599.
112. Bottomley PA, Lee YH, Weiss RG. *Total creatine in muscle: imaging and quantification with proton MR spectroscopy*. Radiology 1997; 204:403-410.
113. Bottomley PA. *The rise of human in vivo NMR spectroscopy*. E Raymond Andrew 75th Anniversary Symposium. Solid State Nuclear Magnetic Resonance 1997; 9: 29-40.
114. Conway MA, Bottomley PA, Ouwerkerk R, Radda GK, Rajagopalan B. *Mitral Regurgitation: Impaired Systolic Function, Eccentric Hypertrophy, and Increased Severity Are Linked to Lower Phosphocreatine/ATP Ratios in Humans*. Circulation 1998; 97: 1716-1723.
115. Bottomley PA, Weiss RG. *Noninvasive MRS detection of localized creatine depletion in non-viable, infarcted myocardium*. The Lancet 1998; 351: 714-718.
116. Lee RF, Giaquinto R, Constantinides, Souza, S, Weiss RG, Bottomley PA. *A broadband phased-array system for direct phosphorus and sodium metabolic MRI on a clinical scanner*. Magn Reson Med 2000; 43: 269-277.
117. Constantinides C, Weiss RG, Lee R, Bolar D, Bottomley PA. *Restoration of low resolution metabolic images with a priori anatomic information: ^{23}Na MRI in myocardial infarction*. Magn Reson Imaging 2000; 18: 461-471.
118. Constantinides C, Gillen JS, Boada FE, Pomper MG, Bottomley, PA. *Human skeletal muscle: ^{23}Na MR imaging and quantification-potential applications in exercise and disease*. Radiology 2000; 216: 559-568.
119. Lee RF, Westgate CR, Weiss RG, Bottomley PA. *An analytical SMASH procedure (ASP) for sensitivity-encoded MRI*. Magn Reson Med 2000; 43: 716-725.
120. Ouwerkerk R, Bottomley PA. *On neglecting chemical exchange effects when correcting in vivo ^{31}P MRS for partial saturation*. J Magn Reson 2001; 148: 425-435.
121. Bottomley PA, Weiss RG. *Noninvasive localized MR quantification of creatine kinase metabolites in normal and infarcted canine myocardium*. Radiology 2001; 219: 411-418.
122. Lee RF, Westgate CR, Weiss RG, Newman D, Bottomley PA. *The planar strip array (PSA) for parallel spatial encoded MRI*. Magn Reson Med 2001; 45: 673-683.
123. Ouwerkerk R, Bottomley PA. *On neglecting chemical exchange effects when correcting in vivo ^{31}P MRS for partial saturation: Commentary on: "Pitfalls in the measurement of metabolite concentrations using the one-pulse experiment in in vivo NMR"*. J Magn Reson 2001; 149: 282-286.

124. Beache GM, Herzka DA, Boxerman JL, Post WS, Gupta SN, Faranesh AZ, Solaiyappan M, Bottomley PA, Weiss JL, Shapiro EP, Hill MN. *Attenuated Myocardial Vasodilator Response in Patients With Hypertensive Hypertrophy Revealed by Oxygenation-Dependent Magnetic Resonance Imaging.* *Circulation* 2001; 104: 1214-1217.
125. Constantinides CD, Kraitchman DL, O'Brien K, Boada FE, Gillen J, Bottomley PA. *Noninvasive quantification of total sodium concentrations in acute reperfused myocardial infarction using ^{23}Na MRI.* *Magn Reson Med* 2001; 46: 1144-1151.
126. McCaffrey RJ, Cousins JP, Westervelt HJ, Martynowicz M, Remick SC, Szebenyi S, Wagle WA, Bottomley PA, Hardy CJ, Haase RF. *Practice effects with the NIMH AIDS abbreviated neuropsychological battery.* *Arch Clin Neuropsych* 1995; 10: 241-250.
127. Constantinides CD, Rogers J, Herzka D, Bolar D, Boada FE, Kraitchman DL, Bottomley PA. *Superparamagnetic iron oxide MION as a potential contrast agent for ^{23}Na MRI in myocardial infarction.* *Magn Reson Med* 2001; 46: 1164-1168.
128. Bottomley PA, Ouwerkerk R, Lee RF, Weiss RG. *Four angle saturation transfer (FAST) method for measuring creatine kinase reaction rates in vivo.* *Magn Reson Med* 2002; 47: 850-863.
129. Gao F, Bottomley PA, Arnold C, Weiss RG. *The effect of orientation on quantification of muscle creatine by ^1H MR spectroscopy.* *Magn Reson Imag* 2003; 21: 561-566.
130. Ouwerkerk R, Bleich KB, Gillen JS, Pomper MG, Bottomley PA. *Tissue Sodium Concentration In Human Brain Tumors as Measured with ^{23}Na MR Imaging.* *Radiology* 2003; 227:529-537.
131. Lee RF, Hardy CJ, Sodickson DK, Bottomley PA. *The Lumped-Element Planar Strip Array (LPSA) for MRI at 1.5T.* *Magn Reson Med* 2004; 51: 172-183.
132. Jacobs MA, Barker PB, Bottomley PA, Bhujwala Z, Bluemke DA. *Proton magnetic resonance spectroscopic imaging of human breast cancer: a preliminary study.* *JMRI* 2004; 19: 68-75.
133. Hardy CJ, Darrow RD, Saranathan M, Giaquinto RO, Zhu Y, Dumoulin CL, Bottomley PA. *Large field-of-view real-time MRI with a 32-channel system.* *Magn Reson Med* 2004; 52: 878-884.
134. Jacobs MA, Ouwerkerk R, Wolff AC, Stearns V, Bottomley PA, Barker PB, Argani P, Khouri N, Davidson NE, Bhujwala Z, Bluemke DA. *Multiparametric and multinuclear magnetic resonance imaging of human breast cancer: current applications.* *Technology in Cancer Research & Treatment* 2004; 3: 543-550.
135. Weiss RG, Gerstenblith G, Bottomley PA. *ATP Flux through Creatine Kinase in the Normal, Stressed, and Failing Human Heart.* *Proc Natl Acad Sci USA* 2005; 102: 808-813.
136. Ouwerkerk R, Weiss RG, Bottomley PA. *Measuring Human Cardiac Tissue Sodium Concentrations Measured Using Surface Coils, Adiabatic Excitation and Twisted Projection Imaging With Minimal T_2 Losses.* *J Magn Reson Imag* 2005; 21: 546-555.

137. Najjar SS, Bottomley PA, Schulman SP, Waldron MM, Steffen RP, Gerstenblith G, Weiss RG. *Effects of a Pharmacologically-Induced Shift of Hemoglobin-Oxygen Dissociation on Myocardial Energetics during Ischemia in Patients with Coronary Artery Disease.* J Cardiovasc MR 2005; 7: 1-10.
138. Gabr RE, Ouwerkerk R, Bottomley PA. *Quantifying in vivo MR spectra with circles.* J Magn Reson 2006; 179: 152-163.
139. Kumar A, Bottomley PA. *Optimizing the Intrinsic Signal-to-noise Ratio of MRI Strip Detectors.* Magn Reson Med 2006; 56: 157-166.
140. Smith CS, Bottomley PA, Schulman SP, Gerstenblith G, Weiss RG. *Altered Creatine Kinase adenosine triphosphate kinetics in failing hypertrophied human myocardium.* Circulation 2006; 114:1151-1158.
141. Gabr RE, Aksit P, Bottomley PA, Youssef ABM, Kadah YM. *Deconvolution-Interpolation Gridding (DING): Accurate Reconstruction for Arbitrary k-space Trajectories.* Magn Reson Med 2006; 56: 1182-1191.
142. Gabr RE, Sathyanarayana S, Schär M, Weiss RG, Bottomley PA. *On restoring motion-induced signal loss in single-voxel magnetic resonance spectra.* Magn Reson Med 2006; 56: 754-760.
143. El-Sharkawy AM, Sotiriadis P, Bottomley PA, Atalar E. *Absolute Temperature Monitoring using RF Radiometry in the MRI Scanner.* IEEE Trans Circ Sys 2006; 53: 2396-2405.
144. El-Sharkawy AM, Schär M, Bottomley PA, Atalar E. *Monitoring and Correcting Spatial and Temporal Variations of the MR Static Magnetic Field.* Magn Reon Mater Phy 2006; 19: 223-236.
145. Ouwerkerk R, Jacobs MA, Macura KJ, Wolff AC, Stearns V, Mezban SD, Khouri NF, Bluemke DA, Bottomley PA. *Elevated Tissue Sodium Concentration in Malignant Breast Lesions Detected With Noninvasive ²³Na MRI.* Breast Cancer Research and Treatment 2007; 2007; 106: 151-160 (DOI 10.1007/s10549-006-9485-4).
146. Aksel B, Marinelli L, Collick BD, Von Morze C, Bottomley PA, Hardy CJ. *Local Planar Gradients with Order-of-Magnitude Strength and Speed Advantage.* Magn Reson Med 2007; 58: 134-243.
147. Stralka JP, Bottomley PA. *A prototype RF dosimeter for independent measurement of the average specific absorption rate (SAR) during MRI.* J Magn Reson Imag 2007; 26: 1296-1302.

148. Kumar A, Bottomley PA. *Optimized quadrature surface coil designs*. Magn Reson Mater Phy 2008; 21: 41-52 (DOI 10.1007/s10334-007-0090-2).
149. Gabr RE, Weiss RG, Bottomley PA. *Correcting reaction rates measured by saturation transfer MRS*. J Magn Reson 2008; 191: 248-258.
150. Ouwerkerk R, Bottomley PA, Solaiyappan M, Spooner A, Tomaselli G, Wu KC, Weiss RG. *Tissue sodium concentration in myocardial infarction in humans: A quantitative ²³Na MR imaging study*. Radiology 2008; 248: 88-96.
151. El-Sharkawy AM, Qian D, Bottomley PA. *The Performance of Interventional Loopless MRI Antennae at Higher Magnetic Field Strengths*. Med Phys 2008; 35: 1995-2006. See also front cover.
152. Jacobs MA, Ouwerkerk R, Kamel I, Bottomley PA, Kim HS. *Combined Proton, Diffusion-weighted imaging, and Sodium MRI of Uterine Leiomyomata Pre- and Post-Treatment: A Preliminary Study*. JMRI 2009; 29: 649-656.
153. Sathyanarayana S, Bottomley PA. *MRI endoscopy using intrinsically localized probes*. Med Phys 2009; 36: 908-919. NIHMS #190760
154. El-Sharkawy AEM, Schär M, Ouwerkerk R, Weiss RG, Bottomley PA. *Quantitative cardiac ³¹P spectroscopy at 3T using adiabatic pulses*. Magn Reson Med 2009; 61:785-795.
155. Gabr RE, Schär M, Edelstein AD, Kraitchman DL, Bottomley PA, Edelstein WA. *MRI Dynamic Range and its Compatibility with Signal Transmission Media*. J Magn Reson 2009; 198: 137-145. NIHMS #197555.
156. Kumar A, Edelstein WA, Bottomley PA. *Noise Figure Limits for Circular Loop MR Coils*. Magn Reson Med. 2009; 61: 1201-09. NIHMS #120273
157. Bottomley PA, Wu KC, Gerstenblith G, Schulman SP, Steinberg A, Weiss RG. *Reduced myocardial creatine kinase flux in human myocardial infarction: An in vivo phosphorus magnetic resonance spectroscopy study*. Circulation 2009; 119: 1918-24. NIHMSID: 126391
158. Qian D, El-Sharkawy AEM, Atalar E, Bottomley PA. *Interventional MRI: Tapering Improves the Forward-Looking Properties of the Loopless Antenna*. Magn Reson Med 2010; 63: 797-802. NIHMSID # 190764
159. Ruiz-Cabello J, Barnett BP, Bottomley PA, Bulte JWM. *Fluorine (¹⁹F) MRS and MRI in*

Biomedicine. NMR in Biomedicine 2010 (in press).

160. Schär M, El-Sharkawy AEM, Weiss RG, Bottomley PA. *Triple Repetition Time Saturation Transfer (TRiST) ³¹P Spectroscopy for Measuring Human Creatine Kinase Reaction Kinetics*. Magn Reson Med 2010; 63: 1493-1501.
161. Bottomley PA, Kumar A, Edelstein WA, Allen JM, Karmarkar PV. *Designing passive MRI-safe implantable conducting leads with electrodes*. Med Phys 2010; 37: 3828-3843.
162. Sathyanarayana S, Schär M, Kraitchman DL, Bottomley PA. Real time MRI Endoscopy. J Am Coll. Cardiol. Cardiovasc. Imag (in press, 2010).

PATENTS

1. Edelstein WA, Bottomley PA. "Method of three-dimensional NMR imaging using selective excitation. US Patent 4,431,968; Feb. 14, 1984.
2. Edelstein WA, Bottomley PA. "Use of phase alternated RF pulses to eliminate effects of spurious free induction decay caused by imperfect 180° RF pulses in NMR imaging." US Patent 4,443,760; April 17, 1984.
3. Edelstein WA, Bottomley PA. "Method of NMR imaging which overcomes T₂* effects in an inhomogeneous static magnetic field" US Patent 4,471,306; Sept. 11, 1984.
4. Bottomley PA. "Selective volume method for performing localized NMR spectroscopy and NMR chemical shift imaging". US Patent 4,480,228; Oct. 30, 1984.
5. Bottomley PA, Edelstein WA (1982) "Method of eliminating spurious FID due to imperfect 180° pulses in NMR imaging: the primer/crusher sequence". US Patent 4,484,138; Nov. 20, 1984.
6. Bottomley PA, Edelstein WA, (1982) "Methods for performing two and three dimensional chemical shift imaging." US Patent 4,506,223; Mar. 19, 1985.
7. Bottomley PA, Edelstein WA. "NMR imaging of the transverse relaxation time using multiple spin echo sequences." US Patent 4,521,733; June 4, 1985.
8. Bottomley PA. "Methods for selective NMR imaging of chemically-shifted nuclei". US Patent 4,585,993; April 29, 1986.
9. Bottomley PA, Glover GH. "Method for reduction of motion artifacts in Fourier transform NMR imaging techniques". US Patent 4,614,195; Sept. 30, 1986.
10. Bottomley PA. "Method of imaging by depth resolved surface coil spectroscopy." US Patent 4,629,988; Dec. 16, 1986.

11. Bottomley PA (1984)"NMR spectroscopy body probes with at least one surface coil". US Patent 4,636,730; Jan. 13, 1987.
12. Bottomley PA, Schenck JF. "An elliptical slotted tube resonator for NMR imaging". US Patent 4,641,097; Feb. 3, 1987.
13. Bottomley PA. "Methods of overcoming transient magnetic field inhomogeneity in NMR chemical shift spectroscopic imaging and NMR imaging". US Patent 4,647,858; Mar. 3, 1987.
14. Hodsohl RJ, Karr SG, Leue WM, Smith LS, Redington RW, Bottomley PA, Edelstein WA. "Method of, and apparatus for, minimizing magnetic resonance imaging artifacts due to power line interference. US Patent 4,667,159; May 19, 1987.
13. Vatis D, Foster TH, Bottomley PA. "Methods of, and apparatus for, proton decoupling in magnetic resonance spectroscopy". US Patent 4,682,106; July 21, 1987.
16. Bottomley PA, Edelstein WA, Hart HR, Schenck JF, Redington RW, Leue WM. "High-field nuclear magnetic resonance imaging/spectroscopy system" US Patent 4,689,563; Aug. 25, 1987.
17. Bottomley PA. "Methods for localization in NMR spectroscopy." US Patent 4,733,185; Mar. 22, 1988.
18. Hayes CE, Foo TK, Perman WH, Moran PR, Bottomley PA. "NMR radio frequency field coil with distributed current". US Patent 4,783,641; Nov. 8, 1988.
19. Bottomley PA, Hardy CJ, O'Donnell M, Roemer PB. "Multi-dimensional selective NMR excitation with a single RF pulse". US Patent 4,812,760; Mar. 14, 1989.
20. Bottomley PA, Roemer PB, Mueller OM, Edelstein WA. "Method of and apparatus for NMR spectroscopic metabolite imaging and quantification". US Patent 4,881,032; Nov. 14, 1989.
21. Roemer PB, Bottomley PA, Edelstein WA. "Volume NMR coil for optimum signal-to-noise ratio". US Patent 4,885,539; Dec. 5, 1989.
22. Bottomley PA, Hardy CJ. "NMR probe with multiple isolated coplanar surface coils". US Patent 4,973,908; Nov. 27, 1990.
23. Hardy CJ, Bottomley PA, Cline HE. "Spectroscopic localization using pinwheel NMR excitation pulses." US Patent 5,192,909; Mar. 9, 1993.
24. Bottomley PA, Hardy CJ. "Spatially-localized chemical reaction-rate NMR spectroscopic imaging". US Patent 5,201,311; April 13, 1993.
25. Dumoulin CL, Bottomley PA, Souza SP. "Magnetic resonance active invasive devices for the generation of selective MR angiograms". US Patent 5,447,156; Sept. 5, 1995.

26. Bottomley PA. "Absolute metabolite concentrations from poorly spatially-resolved MR response signals". US Patent 5,500,592; Mar 19,1996.
27. Atalar E, Bottomley PA, Zerhouni E. "Method of internal magnetic resonance imaging and spectroscopic analysis and associated apparatus". US Patent 5,699,801; Dec 23, 1997.
28. Bottomley PA. "Method and apparatus for determining or imaging longitudinal spin lattice relaxation time or producing images which substantially reflect longitudinal spin lattice time contrast" US Patent 6,064,203; May 16, 2000.
29. Atalar E, Lesho JC, Charles HK, Carkhuff BG, Bottomley PA. "Miniature magnetic resonance catheter coils and related methods." US Patent 6,263,229 B1; July 17, 2001.
30. Lardo, AC, Yang X, Atalar EA, Karmarker P, McVeigh ER, Halperin HR, McNamara CE, Bottomley PA. "Magnetic Resonance Imaging guidewire probe". US Patent 6,675,033; Jan 6 2004.
31. Atalar E, Bottomley PA, Zerhouni EA, Halperin H, McVeigh E, Lardo AC. Methods for in vivo magnetic resonance imaging. US patent 6,549,800 B1; April 15, 2003.
32. Atalar E, Bottomley PA, Karmarkar P, Lardo AC, Zerhouni E. Apparatus, systems and methods for in vivo magnetic resonance imaging. US Patent 6,628,980 B2; Sept 30 2003.
33. Bottomley PA. MRI tunable antenna and system. US Patent 7,088,104; Aug 8 2006.
34. Giaquinto RO, Cline HE, Hardy CJ, Dumoulin CL, Bottomley PA. Multi-turn element RF coil array for multiple channel MRI. US patent 7,282,915B2; Oct 16 2007.

BOOK CHAPTERS

1. Bottomley PA. "Medical and biological applications of NMR". In: Partain CL, Price RR, Rollo FD, James AE, eds. Nuclear Magnetic Resonance (NMR) imaging. Philadelphia: W.B. Saunders 1983: Ch 27, p. 375-382.
2. Smith LS, Bottomley PA, Edelstein WA, Hart HR, Redington RW, Schenck JF. "NMR imaging techniques and applications". In: Rao DV, Chandra R, Grapham MC, eds. Physics of nuclear medicine, recent advances. New York: AIP 1984, pp 518-538.
3. Alavi A, Leonard J, Chawluk J., Zimmerman RA, Dann RW, Alavi J, Edelstein W, Bottomley P, Redington R, Reivich M. "Correlative studies of the brain with positron emission tomography (PET), nuclear magnetic resonance (NMR), and x-ray computed tomography (XCT). In: Hartmann A., Hoyer S., eds. Cerebral Blood Flow and Metabolism Measurement. Heidelberg: Springer-Verlag 1985, pp 523-539.
4. Bottomley PA. "High field NMR imaging and spectroscopy". In: Bradbury EM, Nicolini C, eds. NMR in the Life Sciences. NATO Advanced Study Institute Series A: Life Sciences. New York: Plenum 1986, pp 223-234.

5. Bottomley PA. "The frequency dependence of proton NMR relaxation times in biological tissue". In: Partain C.L., Price RR, Patton J. A., Kulkani M.V. James A.E. eds. Magnetic Resonance Imaging, 2nd edition. Vol. II, Philadelphia: W.B. Saunders 1988, Ch. 66, p.1075-1098.
6. Bottomley PA. "A practical guide to getting NMR spectra *in vivo*." In: Budinger TF, Margulis AR eds. Medical magnetic resonance imaging and spectroscopy, a primer. Berkeley CA: Society for Magnetic Resonance in Medicine 1986, pp 81-95.
7. Bottomley PA. "Depth resolved surface coil spectroscopy (DRESS)". In: Diehl P, Fluck E, Gunther H, Kosfeld R, Seelig J, eds. NMR basic principles and progress. Vol. 27. In vivo magnetic resonance spectroscopy II: Localization and Spectral Editing. Berlin Germany: Springer 1992, pp 67-102.
8. Bottomley PA. "Instrumentation and strategies for in vivo human cardiac phosphorus NMR spectroscopy". In: Schaefer S, Balaban RS, eds. Cardiovascular magnetic resonance spectroscopy. Norwell MA: Kluwer Academic 1992, pp 25-43.
9. Bottomley PA, Hardy CJ, Weiss RG. "Quantitative NMR spectroscopy of human heart". In: Pohost GM, ed. "Cardiovascular Applications of Magnetic Resonance Imaging and Spectroscopy". Mount Kisco NY: Futura 1993, Ch 28, p. 349-362.
10. Bottomley PA. "The development of high-field NMR imaging: 0.12 T to 1.5 T. In: Grant DM, Harris RK, eds. Encyclopedia of NMR." Chichester: Wiley, 1995.
11. Bottomley PA. "Heart studies using MRS". In: Grant DM, Harris RK, eds. "Encyclopedia of NMR." Chichester: Wiley 1995, pp 2284-2292.
12. Bottomley PA. "Human cardiac NMR spectroscopy". In: Young IR, Charles C, eds. "MR spectroscopy: clinical applications and techniques". London: Martin Dunitz 1996, pp 75-91.
13. Weiss RG, Bottomley PA. "Cardiac magnetic resonance spectroscopy: principles and applications". In: Skorton DJ, Schelbert HR, Wolf GL, Brundage BH, eds. "Marcus Cardiac Imaging, 2nd edition." Philadelphia PA: W.B.Saunders 1996; Ch 51; 784-791.
14. Bottomley PA. MRS of the human heart. Syllabus, International Society for Magnetic Resonance in Medicine (ISMRM) introductory spectroscopy course, 6th Scientific Meeting, Sydney Australia, April 19, 1998. ISMRM, Berkeley 1998; 357-364.
15. Bottomley PA. Quantification of myocardial phosphorus magnetic resonance spectroscopy in humans. In: Higgins CB, Ingwall JS, Pohost GM, eds. "Current and future applications of magnetic resonance in cardiovascular disease". American Heart Association Monograph Series. Armonk NY: Futura 1998; Ch 23: 405-420.
16. Bottomley PA. Clinical MRS of nuclei other-than-hydrogen. Syllabus, International Society for Magnetic Resonance in Medicine (ISMRM), 7th Scientific Meeting, Philadelphia, PA, May 22-28, 1999. ISMRM, Berkeley 1999; 221-228.

17. Bottomley PA, Lardo AC, Tully S, Karmarker P, Viohl I. Safety and internal MRI coils. 2001 Syllabus. Special cross-specialty categorical course in Diagnostic Radiology: practical MR safety considerations for physicians, physicists, physicists and technologists, Oak Brook IL: Radiological Society of North America 2001; 85-90. (Abstract: Radiology 2001; 221(P): 75).
18. Weiss RG, Bottomley PA, R Kahlil-Filho. Cardiac magnetic resonance spectroscopy. In: Manning WJ, Pennel DJ, Cardiovascular Magnetic Resonance, New York: Churchill Livingstone 2002; Ch 33: 437-446.

Weiss RG, Hirsch GA, Bottomley PA. Cardiac magnetic resonance spectroscopy. In: Kwong, Raymond Y. Contemporary Cardiology: Cardiovascular Magnetic Resonance Imaging. Humana press, Totowa NJ 2007; Ch 30: pp 663-684.

EDITORIALS

1. Bottomley PA. "Book Review: "Nuclear magnetic resonance imaging in medicine, Kaufman L, Crooks LE, and Margulis AR, eds." J Am Med Assoc 1982; 247: 3362.
2. Bottomley PA, Edelstein WA. "Magnetic resonance without nuclei?" Am J Roentgen 1984; 143: 197-198
Duplicate publication: Am J Neuroradiol 1984.
Duplicate publication: Edelstein WA, Bottomley PA. "Magnetic resonance without nuclei?" Radiol 1984; 152: 237-238.
3. Bottomley PA. "Nuclear magnetic resonance spin-offs". Physics Today 1987; 40: S53-S54.
4. Bottomley PA. "Book Review: Physics in Medicine and Biology Encyclopedia: Medical Physics, Bioengineering, and biophysics, edited by T. F. McAinsh (Pergamon New York 1986)". J Am Med Assoc 1987; 257: 2222 (1987).
5. Bottomley PA, Hardy CJ. "Reply to comments of Akber". Med Phys 1987; 14: 1091.
6. Bottomley PA. "Overview-SMRM 1987. Instrumentation". Society Magnetic Resonance in Medicine Newsletter (SMRM, Berkeley, CA) 1987 (Fall); 13: 5.
7. Bottomley PA. "The trouble with spectroscopy papers". Radiology 1991; 181: 344-350.
Duplicate publication: J Magn Reson Imaging 1992; 2: 1-8.
8. Bottomley PA. "Proton MR spectroscopy for diagnosing hepatic encephalopathy?" Radiology 1992; 182: 6-7.
9. Balaban R, Bottomley PA, Brown TR, Gadian D, Mountford C, Radda GK, Ross BD, Shulman RG, Springer C, Ugurbil K. "Advances in physiological chemistry by in vivo NMR (meeting report)." Magn Reson Med 1995; 34: 289-292.
10. Bottomley PA, Mansfield P, Allen PS. In memorium. E Raymond Andrew, June 27, 1921-May 26, 2001.

Magn Reson Med 2001 2001; 46: 417-418. Duplicate publication: The Independent (national newspaper, UK) Thurs July 26 2001: 6.

11. Bottomley PA. *Turning up the heat on MRI*. J Am Coll Radiol 2008: 853-855.